

# TC-W606/W606M

## SERVICE MANUAL

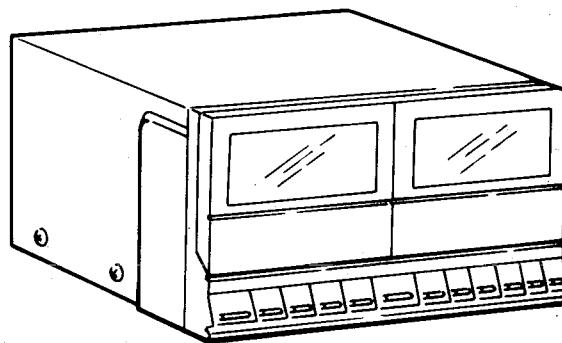
UK Model

E Model

TC-W606

AEP Model

TC-W606M



- TC-W606 is the STEREO DOUBLE CASSETTE DECK in FH-606/606R.
- TC-W606M is the STEREO DOUBLE CASSETTE DECK in MHC-1000.

### SPECIFICATIONS

#### Recording system

4-track 2-channel stereo

#### Frequency response

DOLBY NR OFF (DIN)

With TYPE II cassette (Sony UX-S)

60 to 14,000 Hz ( $\pm 3$  dB)

With TYPE I cassette (Sony HF-X)

60 to 13,000 Hz ( $\pm 3$  dB)

#### Wow and flutter

0.1% WRMS (NAB)

$\pm 0.3\%$  (DIN)

#### General

##### Dimensions

Approx. 225 x 120 x 260 mm (l/h/p)

(9 x 4 $\frac{3}{4}$  x 10 $\frac{1}{4}$  inches)

incl. projecting parts and controls

##### Weight

Approx. 3.0 kg (6lb 11oz)

Model Name Using Similar Mechanism	DECK A: DXA-205W
	DECK B: DXA-205W
Tape Transport Mechanism Type	DECK A: YM47CW-26
	DECK B: YM47CW-27

### MODEL IDENTIFICATION

**SONY**® MODEL No. TC-W606

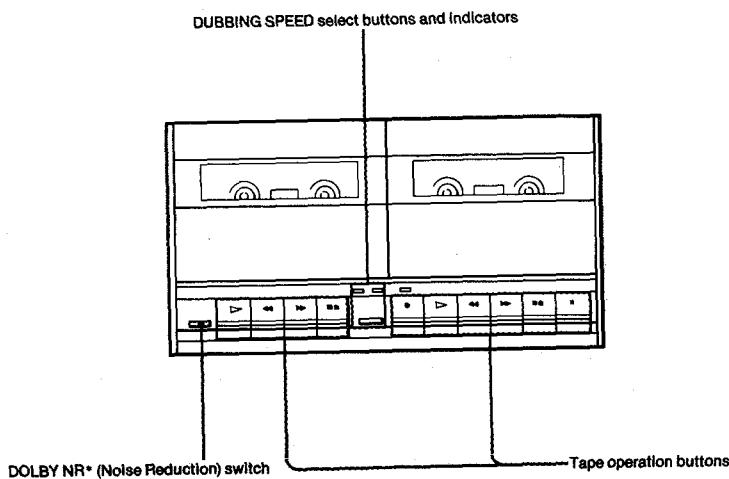
STEREO CASSETTE DECK  
COMPACT COMPACT HI-DENSITY  
COMPONENT SYSTEM



MICROFILM

STEREO DOUBLE  
CASSETTE DECK  
**SONY**®

## LOCATION AND FUNCTION OF PARTS AND CONTROLS

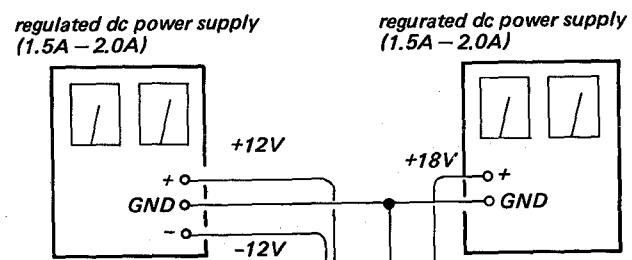


## REPAIRING PRECAUTION

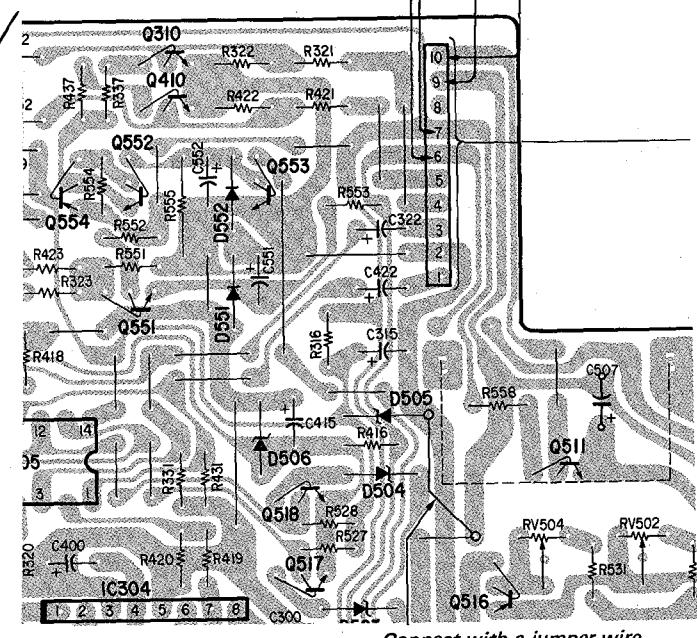
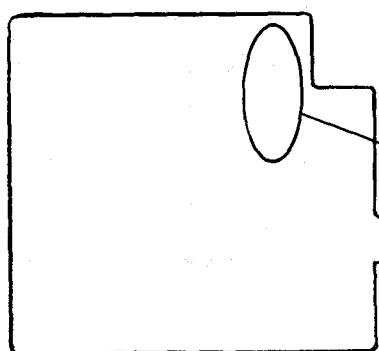
[To apply B+ voltage]

The power of this unit is fed from TA-606.

Because of this, connect the regulated power supply as illustrated below when this unit alone operates.



[Main Board] (conductor side)



*Connect with a jumper wire.*

# SECTION 1

## ADJUSTMENTS

TC-W606/W606M

TC-W606/W606M

### 1-1. MECHANICAL ADJUSTMENTS

#### PRECAUTION

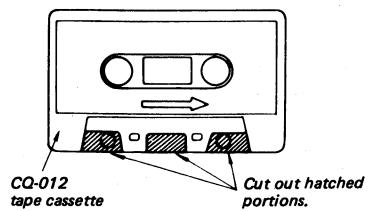
1. Clean the following parts with a denatured-alcohol-moistened swab:
  - record/playback/erase head
  - rubber belts
  - capstan
  - pinch roller
  - idle
2. Demagnetize the head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

#### Torque Measurement

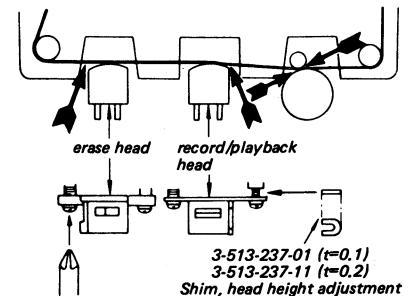
Torque	Torque meter	Meter reading
FWD	CQ-102C	30 - 70 g·cm (0.42 - 0.98 oz·inch)
FWD Back tension	CQ-102C	1.5 - 5.5 g·cm (0.02 - 0.08 oz·inch)
FF, REW	CQ-201B	more than 63 g·cm (more than 0.88 oz·inch)

#### Head Height Adjustment

1. Prepare an adjustment cassette as shown below.



2. In playback mode and viewing from the front, adjust the head heights to eliminate tape curl and tape twist at portions of arrow.



### 1-2. ELECTRICAL ADJUSTMENTS

**Note:** The adjustment should be performed in the order given in this service manual. The adjustments should be performed for both L-CH and R-CH.

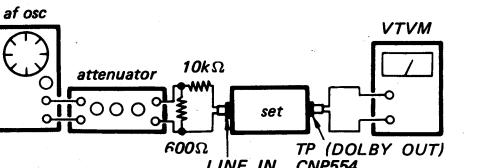
- Switches and controls should be set as follows unless otherwise specified.

DOLBY NR switch: OFF  
ISS switch: 1

#### Standard Record:

Deliver the standard input signal level to the input jack and control the attenuator to obtain the standard output signal level.

#### Record Mode



#### Standard Input Level

	LINE IN
source impedance	10kΩ
input level	0.25V (-10dB)

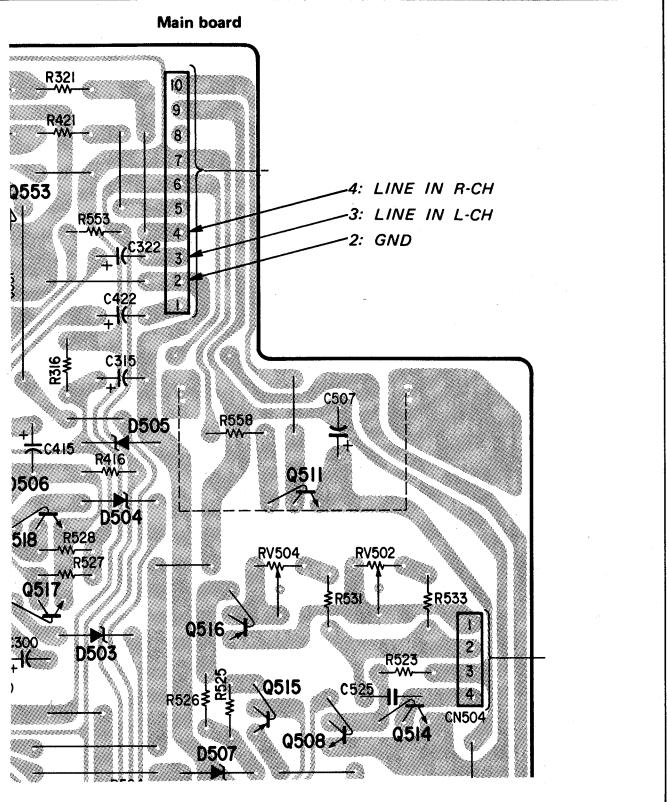
#### Standard Output Level

	TP (DOLBY OUT) CNP554
load impedance	NONE
output level	0.4V (-5.7dB)

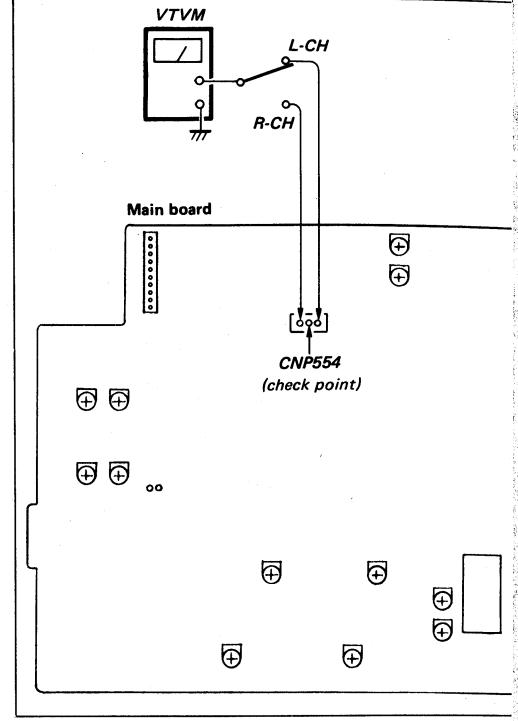
#### Test Tape

Type	Signal	Used for
WS-48B	3kHz, 0 dB	Tape Speed Adjustment
P-4-A063	6.3kHz, -10 dB	Azimuth Adjustment
P-4-L300	315 Hz, 0 dB	Level Adjustment

- Locations of LINE IN.



- Output level checkpoint



#### Tape Speed Adjustment

##### DECK A DECK B

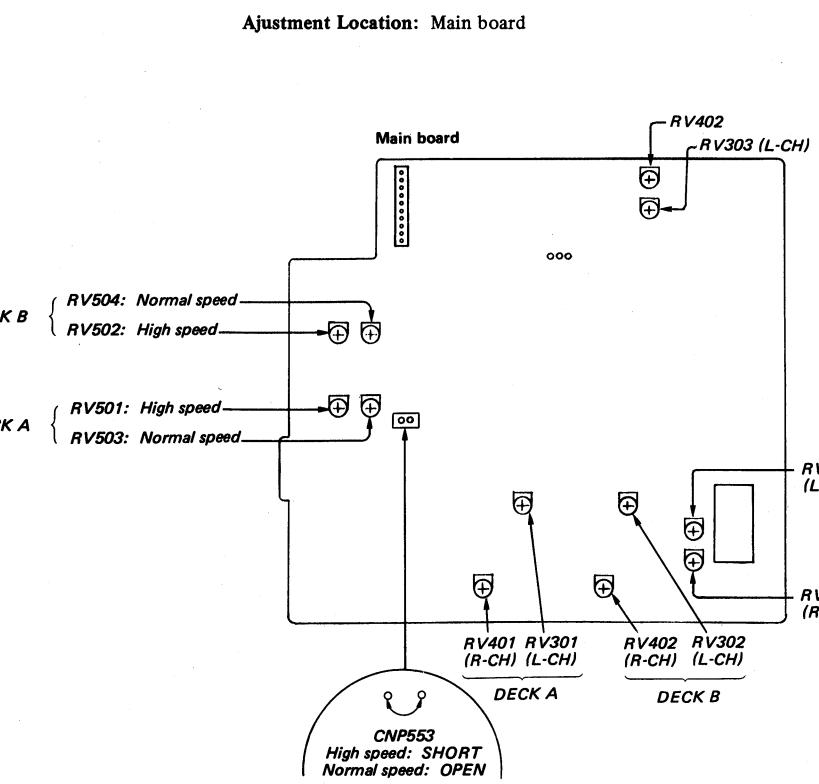
###### Procedure:

Mode: playback

Perform high speed adjustment before normal speed adjustment.

test tape  
WS-48B  
(3kHz, 0 dB)

digital frequency counter



###### Specifications:

	Adjustment part	Test pin (CNP553)	...
Normal speed	Deck A RV503 Deck B RV504	OPEN	2
High speed	Deck A RV501 Deck B RV502	SHORT	5

#### Playback Level Adjustment

##### DECK A DECK B

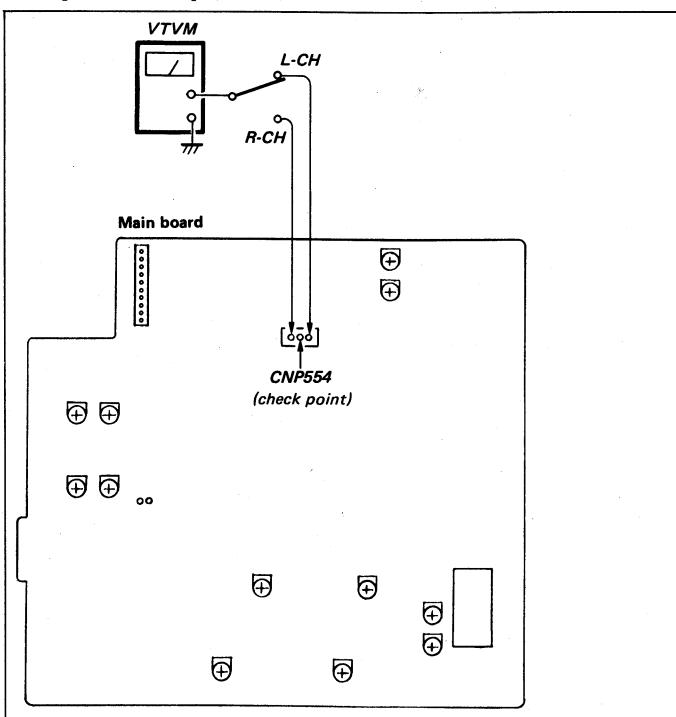
###### Procedure:

test tape  
P-4-L300  
(315 Hz, 0 dB)

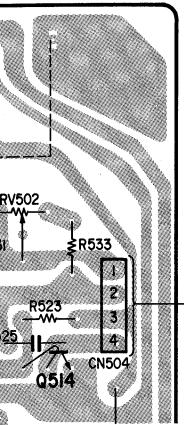
VTV

Adjust { DECK A: RV301 (L-CH), RV401 (R-CH) }  
DECK B: RV302 (L-CH), RV402 (R-CH) so that the specifications are satisfied.

● Output level checkpoint

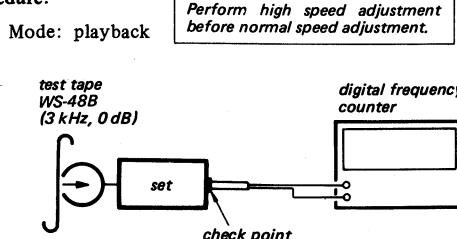


1: LINE IN R-CH  
2: LINE IN L-CH  
3: GND



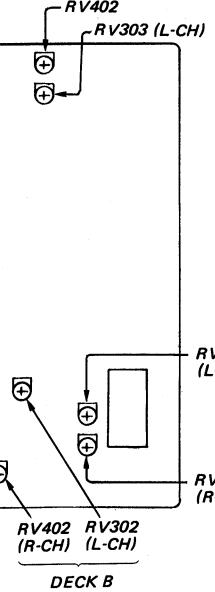
Tape Speed Adjustment **DECK A** **DECK B**

Procedure:



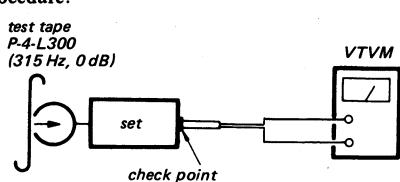
Specifications:

	Adjustment part	Test pin (CNP553)	Digital frequency counter
Normal speed	Deck A: RV503 Deck B: RV504	OPEN	2,970 to 2,990 Hz
High speed	Deck A: RV501 Deck B: RV502	SHORT	5,950 to 6,010 Hz



Playback Level Adjustment **DECK A** **DECK B**

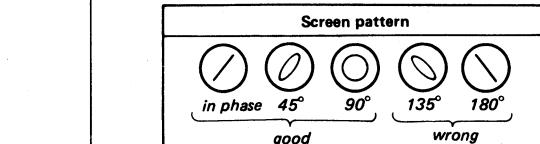
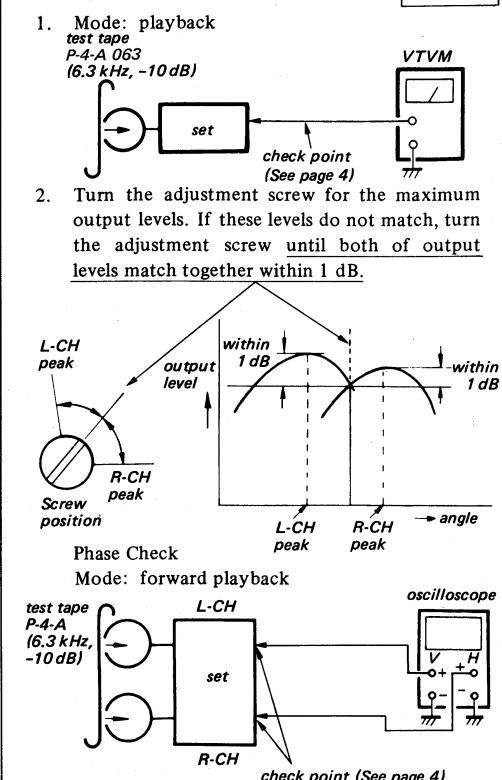
Procedure:



Adjust {DECK A: RV301 (L-CH), RV401 (R-CH)}  
so that the specifications are satisfied.

Record/playback Head Azimuth Adjustment **DECK A** **DECK B**

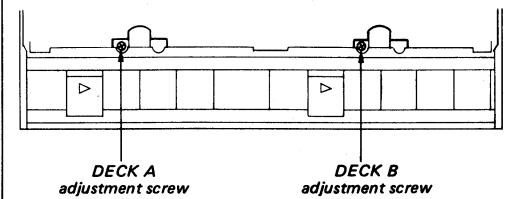
Procedure:



3. Set in the reverse mode and repeat the steps 1-2.

4. After the adjustment, lock the screws with locking compound.

Adjustment Location: Remove the Cassette holder.



Specification

Check point (see page 3) level: 0.37 to 0.43 V  
(-6.2 dB to -5.2 dB)

Level difference between channels:

less than 0.5 dB check that the check point level does not change in playback mode while changing the mode from playback to stop several times.

Record Bias Adjustment **DECK B**

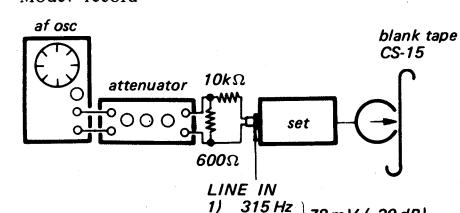
Setting:

- ATTENUATOR: standard record  
(See page 4)

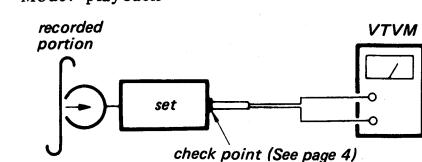
Procedure:

See page 4 for location of LINE IN.

1. Mode: record



2. Mode: playback



Confirm that the 10 kHz playback output is -0.5 dB to 0.5 dB relative to the 315 Hz output. If necessary, adjust RV304 (L-CH), RV404 (R-CH) and repeat the steps given above.

Record Level Adjustment **DECK B**

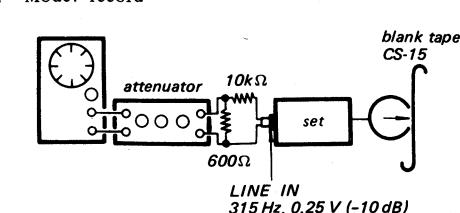
Setting:

- ATTENUATOR: standard record  
(See page 4)

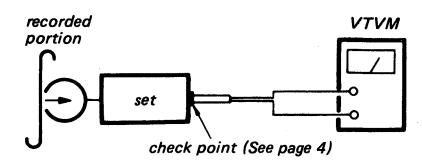
Procedure:

See page 4 for location of LINE IN.

1. Mode: record



2. Mode: playback



3. Playback the signal recorded in step 1. Confirm that the signal level is within the specification below. If necessary, adjust RV303 (L-CH), RV403 (R-CH) and repeat the steps 1 - 3.

Specification:

Check point (see page 4) level: 0.37 V to 0.43 V (-6.2 dB to -5.2 dB)

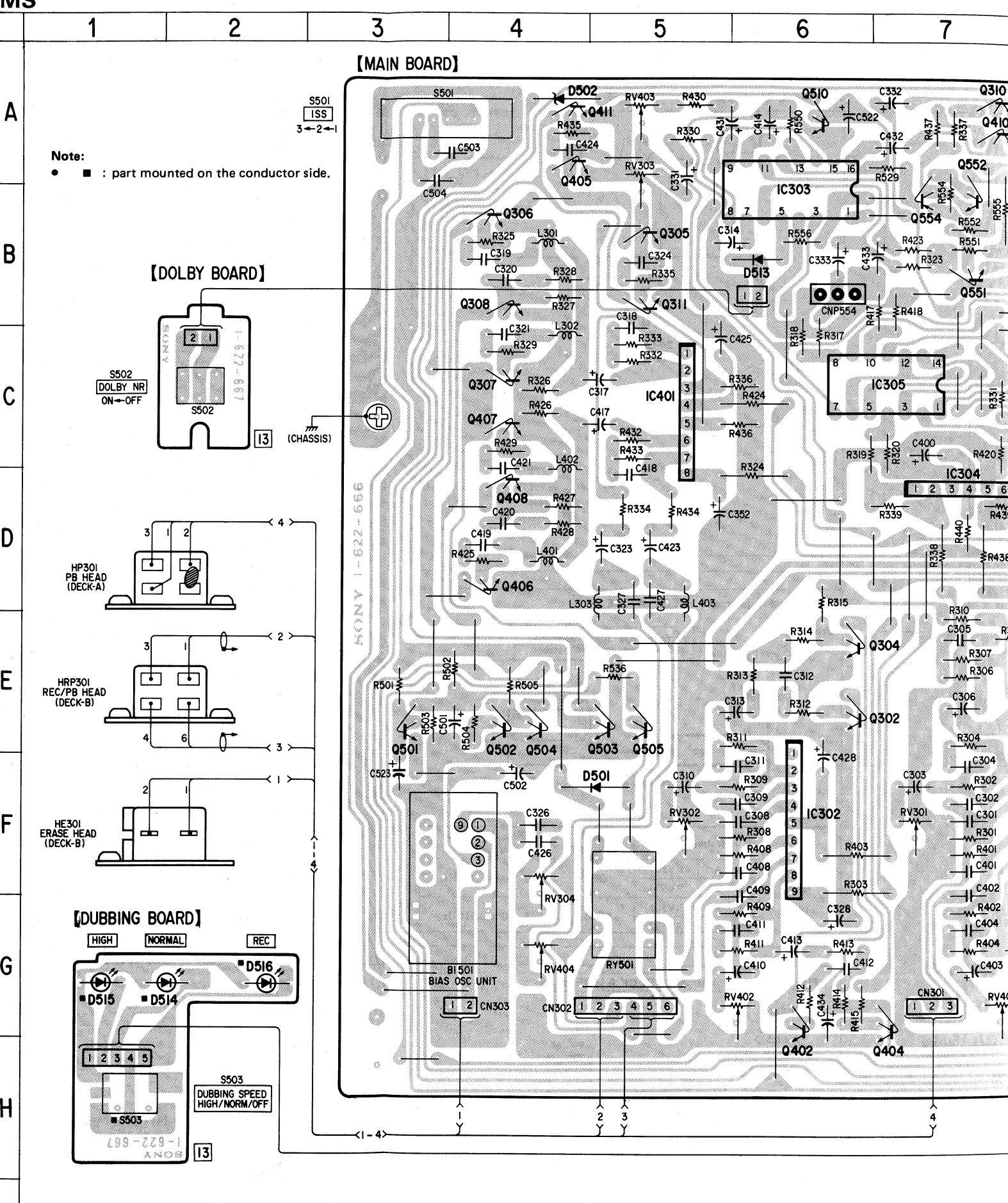
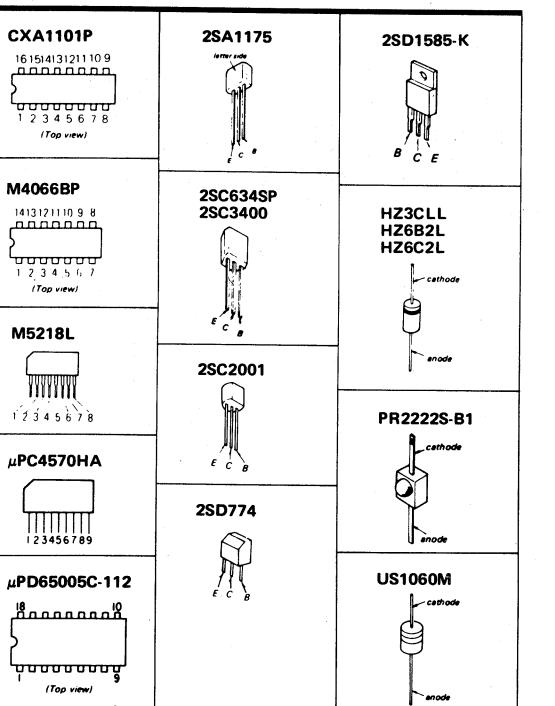
## SECTION 2 DIAGRAMS

## 2-1. PRINTED WIRING BOARDS —Main Board—

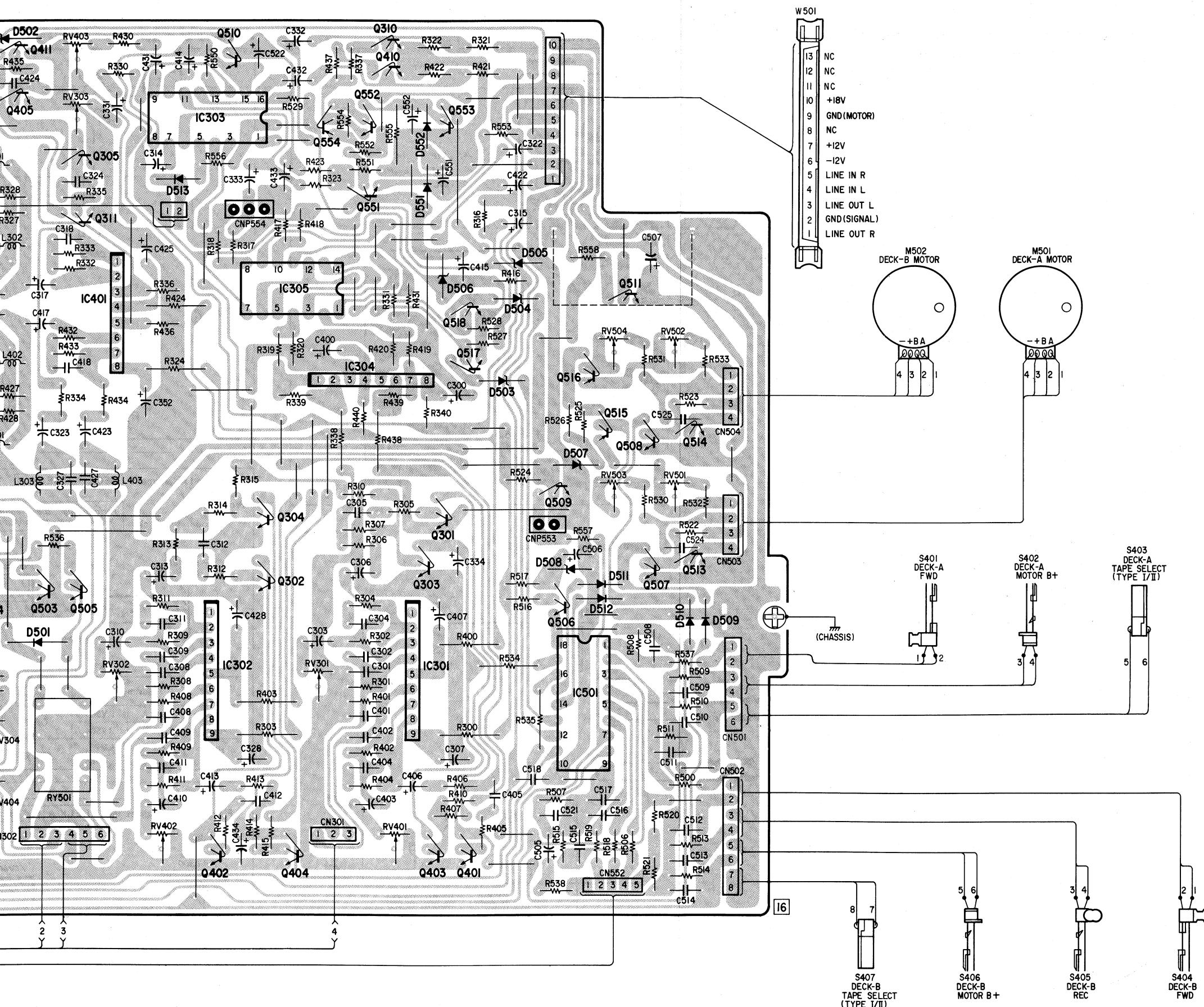
## ● SEMICONDUCTOR LOCATIONS

Ref. No.	Location	Ref. No.	Location
D501	F-5	Q308	B-4
D502	A-4	Q310	A-7
D503	D-8	Q311	B-5
D504	C-8	Q401	H-8
D505	C-8	Q402	H-6
D506	C-8	Q403	H-8
D507	D-9	Q404	H-7
D508	E-9	Q305	A-4
D509	F-10	Q406	D-4
D510	F-10	Q407	C-4
D511	E-9	Q408	D-4
D512	E-9	Q410	A-7
D513	B-6	Q411	A-5
D514	G-1	Q501	E-3
D515	G-1	Q502	E-4
D516	G-2	Q503	E-5
D551	B-8	Q504	E-4
D552	B-8	Q505	E-5
		D506	F-9
IC301	F-8	Q507	E-9
IC302	F-6	Q508	D-9
IC303	B-6	Q509	E-9
IC304	D-7	Q510	A-6
IC305	C-7	Q511	C-9
IC401	C-5	Q513	E-10
IC501	F-9	Q514	D-10
Q301	E-8	Q515	D-9
Q302	E-7	Q516	D-9
Q303	E-8	Q517	C-8
Q304	E-7	Q518	C-8
Q305	B-5	Q551	B-7
Q306	B-4	Q552	A-7
Q307	C-4	Q553	A-8
		Q554	B-7

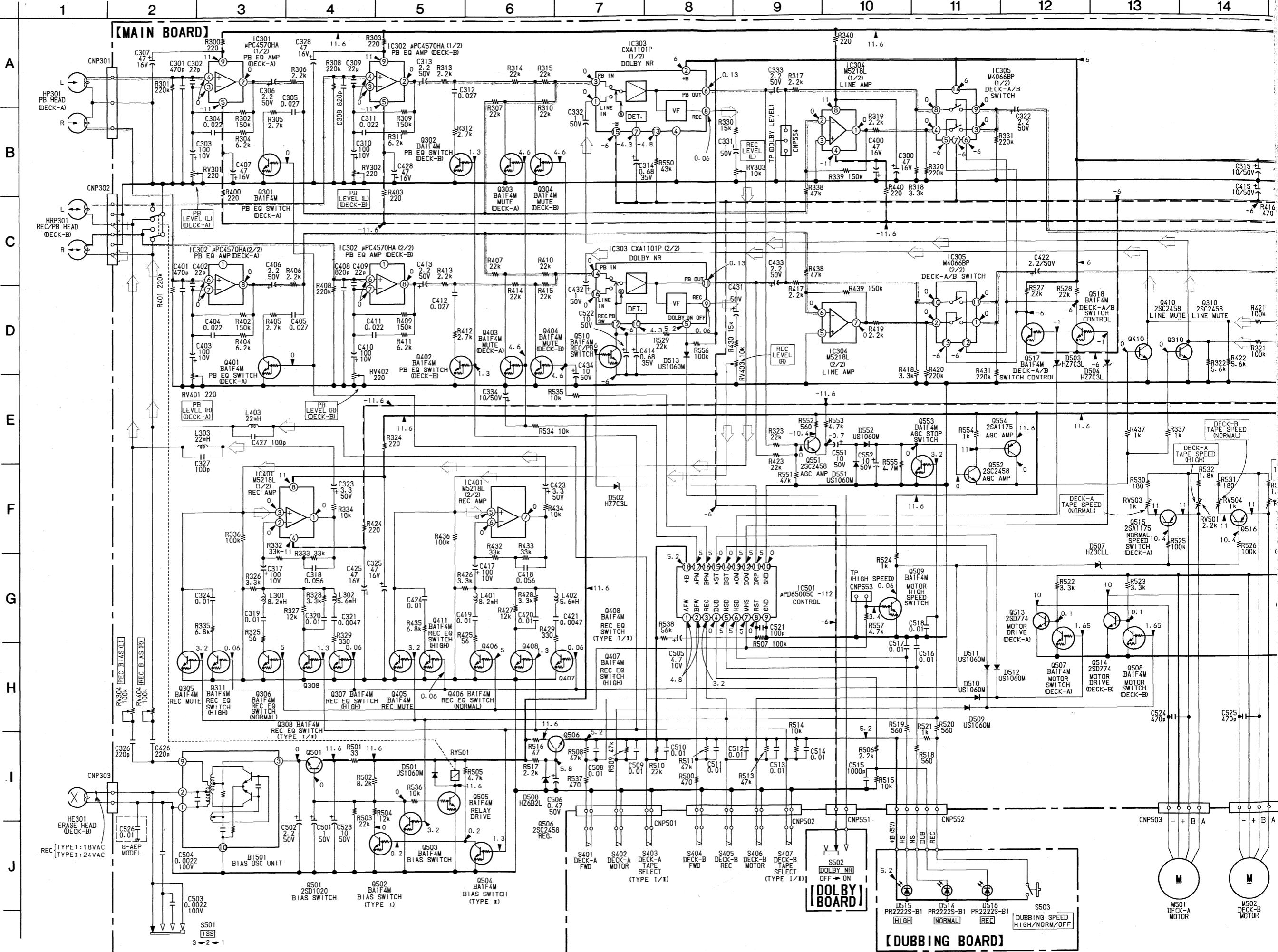
## ● SEMICONDUCTOR LEAD LAYOUTS



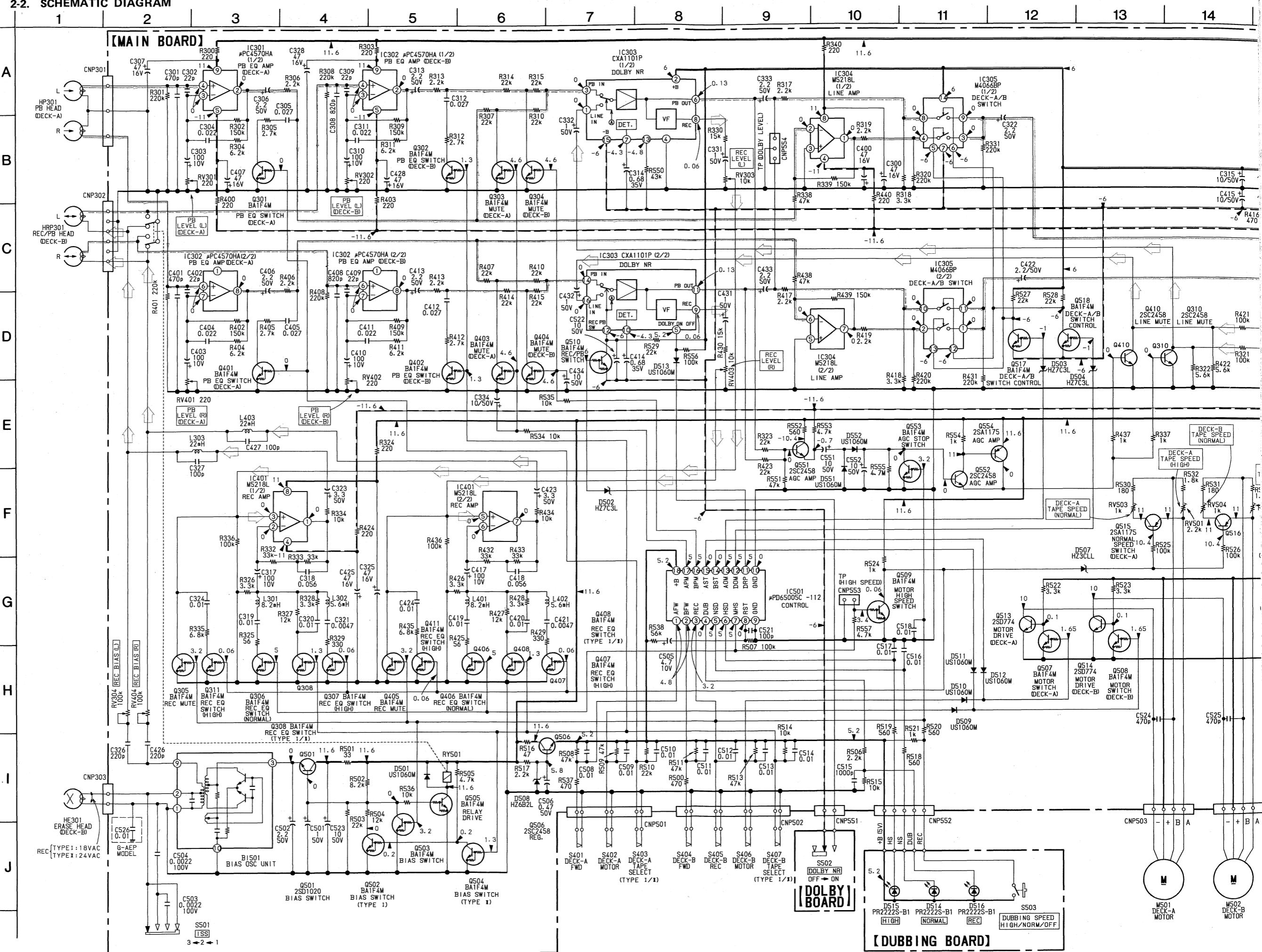
5 6 7 8 9 10 11 12 13 14

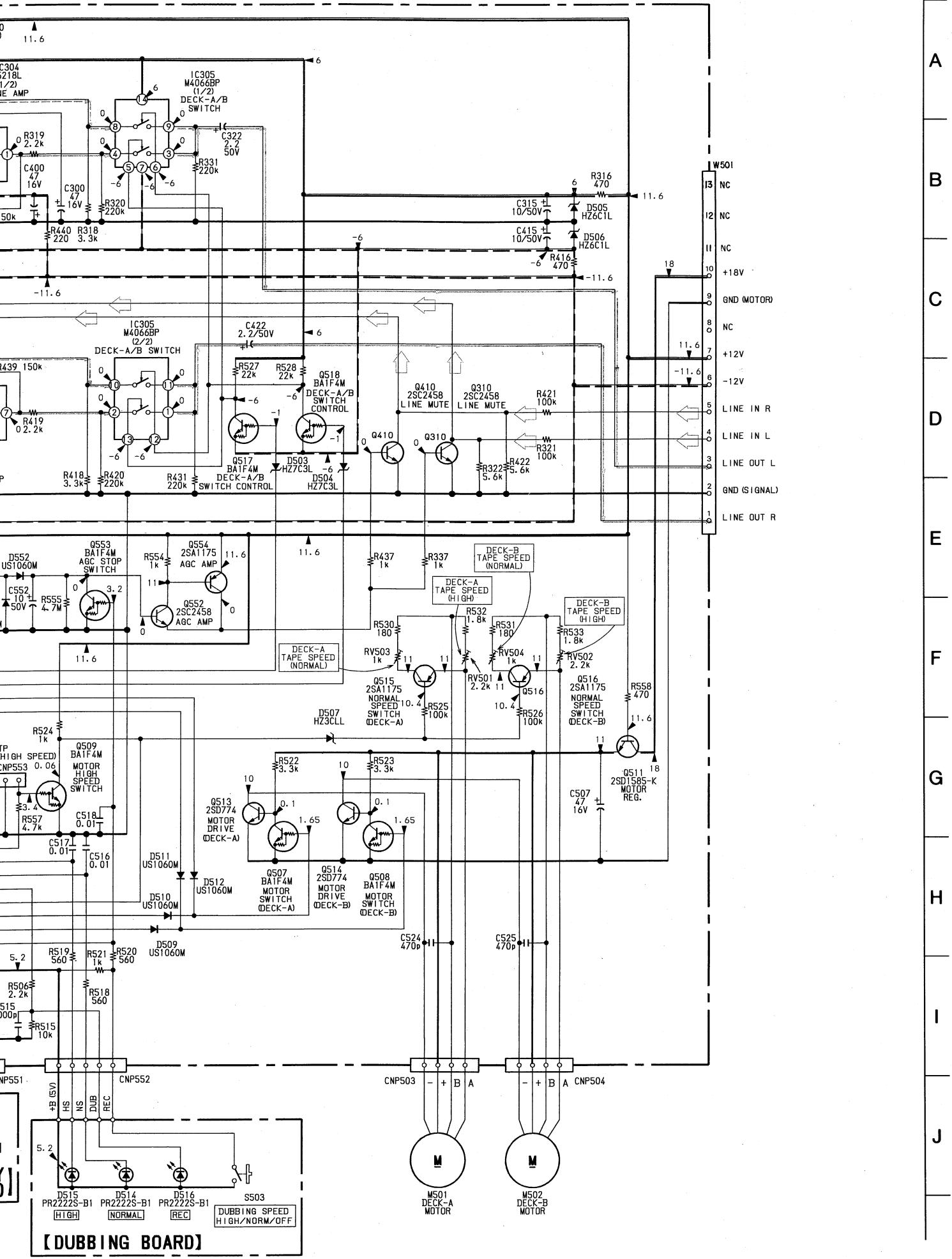


## 2-2. SCHEMATIC DIAGRAM



## 2-2. SCHEMATIC DIAGRAM





**Note:**

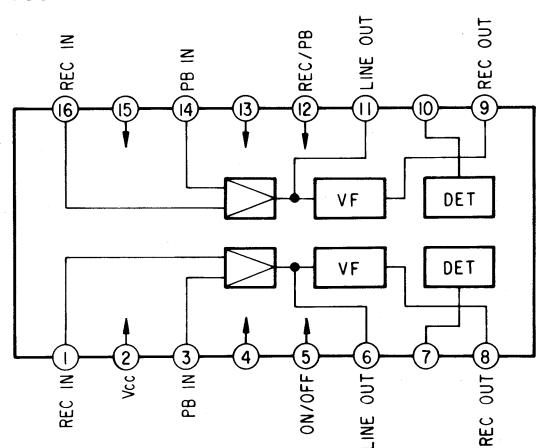
• All capacitors are in  $\mu\text{F}$  unless otherwise noted.  $\text{pF}$ :  $\mu\mu\text{F}$   
 50WV or less are not indicated except for electrolytics and tantalums.

• All resistors are in  $\Omega$  and  $1/4\text{W}$  or less unless otherwise specified.

-  : PLAYBACK signal path (DECK-A)
-  : PLAYBACK signal path (DECK-B)
-  : RECORD signal path
-  : B+ bus.
-  : B- bus.
-  : adjustment for repair.
- AC voltage readings in the bias oscillator with a VTVM.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal conditions with a VOM (50 k $\Omega$ /V).
- no mark: STOP mode
- Voltage variations may be noted due to normal production tolerances.
- Switches:

Ref. No.	Switch	Position
S501	ISS	1
S502	DOLBY NR	OFF
S503	DUBBING SPEED HIGH/NORM/OFF	OFF
S504	DECK-A FWD	OFF
S505	DECK-A MOTOR	OFF
S506	DECK-A TAPE SELECT I/II	OFF
S507	DECK-B FWD	OFF
S508	DECK-B MOTOR	OFF
S509	DECK-B TAPE SELECT I/II	OFF
S510	DECK-B REC	OFF

IC303 CXA1101P



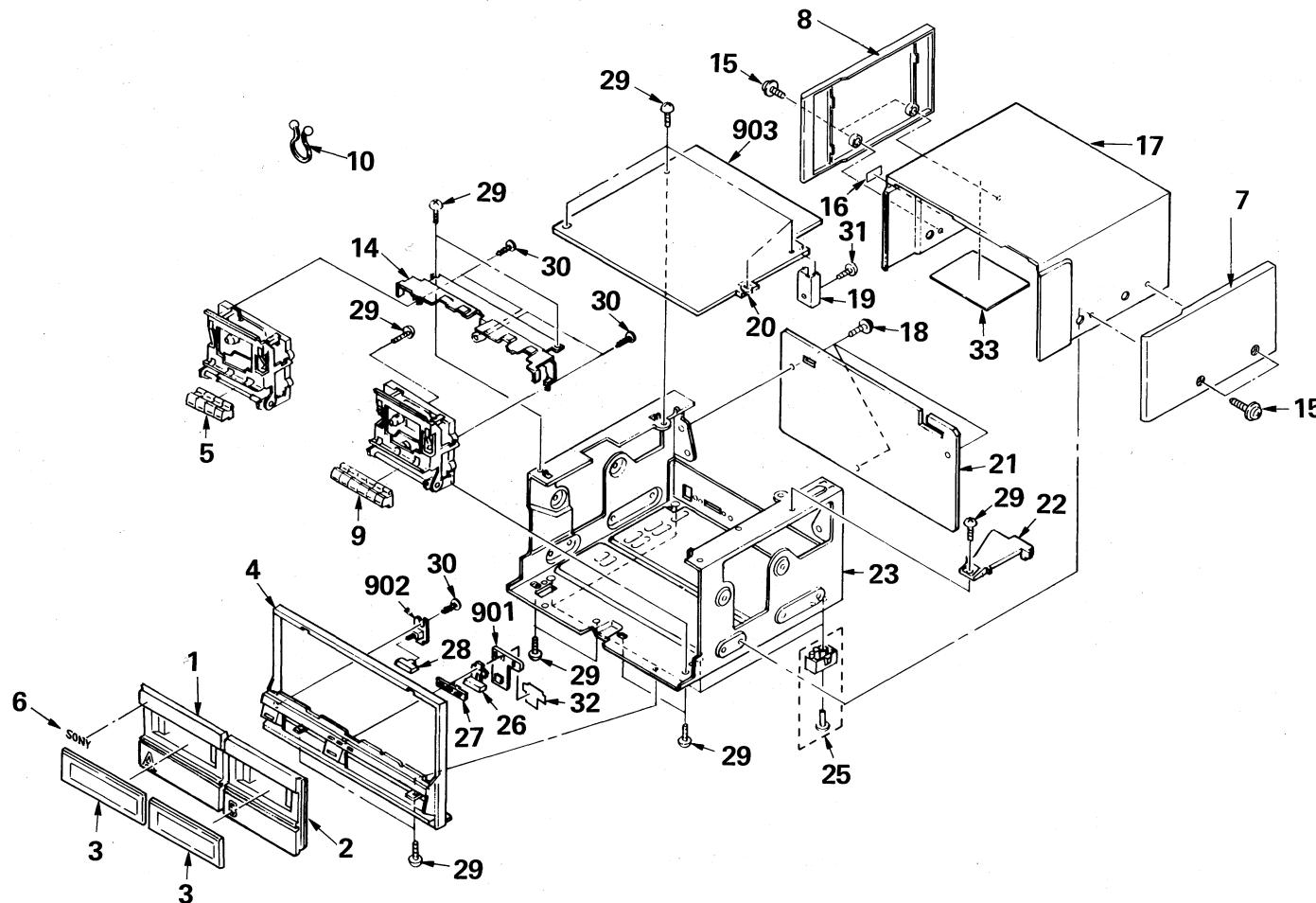
## **SECTION 3**

### **EXPLODED VIEWS AND PARTS LIST**

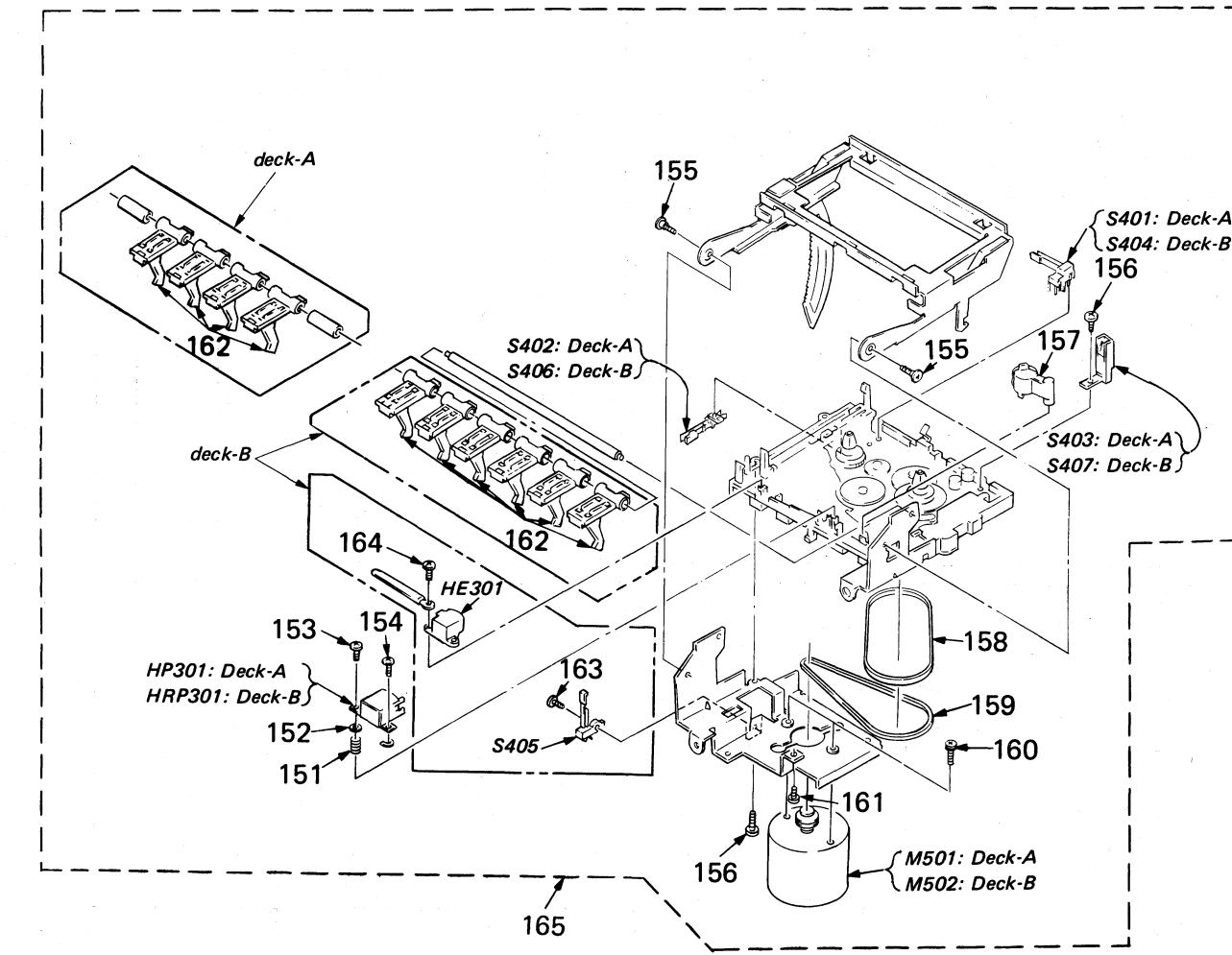
**NOTE:**

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked “★” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Part Example:
 

(RED)	... KNOB, BALANCE (WHITE)
↑	↑
Cabinet's Color	Parts' Color



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## SECTION 4

## ELECTRICAL PARTS LIST

## NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

## CAPACITORS:

MF:  $\mu$ F, PF:  $\mu\mu$ F.

## RESISTORS

- All resistors are in ohms.
- F: nonflammable

## COILS

- MMH: mH, UH:  $\mu$ H

## SEMICONDUCTORS

In each case, U:  $\mu$ , for example:UA...:  $\mu$ A..., UPA...:  $\mu$ PA...,  
UPC...:  $\mu$ PC, UPD...:  $\mu$ PD...

## ELECTRICAL PARTS

Ref.No.	Part No.	Description				
901	*1-622-668-11	PC BOARD, DUBBING				
902	*1-622-667-11	PC BOARD, DOLBY				
903	*A-2095-623-A	MOUNTED PCB, MAIN				
BI501	1-464-797-11	OSCILLATION UNIT, BIAS				
C300	1-123-332-00	ELECT	47MF	20%	16V	
C301	1-162-290-31	CERAMIC	470PF	10%	50V	
C302	1-162-207-31	CERAMIC	22PF	5%	50V	
C303	1-124-443-00	ELECT	100MF	20%	10V	
C304	1-130-487-00	MYLAR	0.022MF	5%	50V	
C305	1-130-488-00	MYLAR	0.027MF	5%	50V	
C306	1-124-925-11	ELECT	2.2MF	20%	50V	
C307	1-123-332-00	ELECT	47MF	20%	16V	
C308	1-162-293-31	CERAMIC	820PF	10%	50V	
C309	1-162-207-31	CERAMIC	22PF	5%	50V	
C310	1-124-443-00	ELECT	100MF	20%	10V	
C311	1-130-487-00	MYLAR	0.022MF	5%	50V	
C312	1-130-488-00	MYLAR	0.027MF	5%	50V	
C313	1-124-925-11	ELECT	2.2MF	20%	50V	
C314	1-131-346-00	TANTALUM	0.68MF	10%	35V	
C315	1-123-875-11	ELECT	10MF	20%	50V	
C317	1-124-443-00	ELECT	100MF	20%	10V	
C318	1-130-492-11	MYLAR	0.056MF	5%	50V	
C319	1-130-483-00	MYLAR	0.01MF	5%	50V	
C320	1-130-483-00	MYLAR	0.01MF	5%	50V	
C321	1-130-479-00	MYLAR	0.0047MF	5%	50V	
C322	1-124-925-11	ELECT	2.2MF	20%	50V	
C323	1-124-905-11	ELECT	3.3MF	20%	50V	
C324	1-130-483-00	MYLAR	0.01MF	5%	50V	
C325	1-123-332-00	ELECT	47MF	20%	16V	
C326	1-162-286-31	CERAMIC	220PF	10%	50V	
C327	1-162-282-31	CERAMIC	100PF	10%	50V	
C328	1-123-332-00	ELECT	47MF	20%	16V	
C331	1-124-791-11	ELECT	1MF	20%	50V	
C332	1-124-791-11	ELECT	1MF	20%	50V	
C333	1-124-925-11	ELECT	2.2MF	20%	50V	
C334	1-123-875-11	ELECT	10MF	20%	50V	
C400	1-123-332-00	ELECT	47MF	20%	16V	
C401	1-162-290-31	CERAMIC	470PF	10%	50V	
C402	1-162-207-31	CERAMIC	22PF	5%	50V	
C403	1-124-443-00	ELECT	100MF	20%	10V	
C404	1-130-487-00	MYLAR	0.022MF	5%	50V	
C405	1-130-488-00	MYLAR	0.027MF	5%	50V	
C406	1-124-925-11	ELECT	2.2MF	20%	50V	
C407	1-123-332-00	ELECT	47MF	20%	16V	
C408	1-162-293-31	CERAMIC	820PF	10%	50V	
C409	1-162-207-31	CERAMIC	22PF	5%	50V	

## ELECTRICAL PARTS

Ref.No.	Part No.	Description				
C410	1-124-443-00	ELECT	100MF	20%	10V	
C411	1-130-487-00	MYLAR	0.022MF	5%	50V	
C412	1-130-488-00	MYLAR	0.027MF	5%	50V	
C413	1-124-925-11	ELECT	2.2MF	20%	50V	
C414	1-131-346-00	TANTALUM	0.68MF	10%	35V	
C415	1-123-875-11	ELECT	10MF	20%	50V	
C417	1-124-443-00	ELECT	100MF	20%	10V	
C418	1-130-492-11	MYLAR	0.056MF	5%	50V	
C419	1-130-483-00	MYLAR	0.01MF	5%	50V	
C420	1-130-483-00	MYLAR	0.01MF	5%	50V	
C421	1-130-479-00	MYLAR	0.0047MF	5%	50V	
C422	1-124-925-11	ELECT	2.2MF	20%	50V	
C423	1-124-905-11	ELECT	3.3MF	20%	50V	
C424	1-130-483-00	MYLAR	0.01MF	5%	50V	
C425	1-123-332-00	ELECT	47MF	20%	16V	
C426	1-162-286-31	CERAMIC	220PF	10%	50V	
C427	1-162-282-31	CERAMIC	100PF	10%	50V	
C428	1-123-332-00	ELECT	47MF	20%	16V	
C431	1-124-791-11	ELECT	1MF	20%	50V	
C432	1-124-791-11	ELECT	1MF	20%	50V	
C433	1-124-925-11	ELECT	2.2MF	20%	50V	
C434	1-123-875-11	ELECT	10MF	20%	50V	
C501	1-124-791-11	ELECT	1MF	20%	50V	
C502	1-124-925-11	ELECT	2.2MF	20%	50V	
C503	1-106-351-00	MYLAR	0.0022MF	10%	100V	
C504	1-106-351-00	MYLAR	0.0022MF	10%	100V	
C505	1-124-927-11	ELECT	4.7MF	20%	50V	
C506	1-124-902-00	ELECT	0.47MF	20%	50V	
C507	1-123-332-00	ELECT	47MF	20%	16V	
C508	1-161-379-00	CERAMIC	0.01MF	30%	16V	
C509	1-161-379-00	CERAMIC	0.01MF	30%	16V	
C510	1-161-379-00	CERAMIC	0.01MF	30%	16V	
C511	1-161-379-00	CERAMIC	0.01MF	30%	16V	
C512	1-161-379-00	CERAMIC	0.01MF	30%	16V	
C513	1-161-379-00	CERAMIC	0.01MF	30%	16V	
C514	1-161-379-00	CERAMIC	0.01MF	30%	16V	
C515	1-162-379-00	CERAMIC	0.01MF	30%	16V	
C516	1-161-379-00	CERAMIC	0.01MF	30%	16V	
C517	1-161-379-00	CERAMIC	0.01MF	30%	16V	
C518	1-161-379-00	CERAMIC	0.01MF	30%	16V	
C521	1-162-282-31	CERAMIC	100PF	10%	50V	
C522	1-123-875-11	ELECT	10MF	20%	50V	
C523	1-123-875-11	ELECT	10MF	20%	50V	
C524	1-162-290-31	CERAMIC	470PF	10%	50V	
C525	1-162-290-31	CERAMIC	470PF	10%	50V	

ELECTRICAL PARTS						
Ref.No.	Part No.	Description				
C551	1-123-875-11	ELECT	10MF	20%	50V	
C552	1-123-875-11	ELECT	10MF	20%	50V	
CNP301*1-564-506-11	PLUG, CONNECTOR 3P					
CNP302*1-564-509-11	PLUG, CONNECTOR 6P					
CNP303*1-564-505-11	PLUG, CONNECTOR 2P					
CNP501*1-564-509-11	PLUG, CONNECTOR 6P					
CNP502*1-564-511-11	PLUG, CONNECTOR 8P					
CNP503*1-564-507-11	PLUG, CONNECTOR 4P					
CNP504*1-564-507-21	PLUG, CONNECTOR 4P					
CNP551*1-564-336-00	PIN, CONNECTOR 2P					
CNP552*1-564-339-00	PIN, CONNECTOR 5P					
CNP553*1-560-060-00	PIN, CONNECTOR 2P					
CNP554*1-560-061-00	PIN, CONNECTOR 3P					
D501	8-719-000-26	DIODE US1060M				
D502	8-719-910-75	DIODE HZ7B2L				
D503	8-719-910-75	DIODE HZ7B2L				
D504	8-719-910-75	DIODE HZ7B2L				
D505	8-719-910-68	DIODE HZ6C2L				
D506	8-719-910-68	DIODE HZ6C2L				
D507	8-719-942-33	DIODE HZ3CLL				
D508	8-719-910-65	DIODE HZ6B2L				
D509	8-719-000-26	DIODE US1060M				
D510	8-719-000-26	DIODE US1060M				
D511	8-719-000-26	DIODE US1060M				
D512	8-719-000-26	DIODE US1060M				
D513	8-719-000-26	DIODE US1060M				
D514	8-719-913-36	DIODE PR2222S-B1				
D515	8-719-913-36	DIODE PR2222S-B1				
D516	8-719-913-36	DIODE PR2222S-B1				
D551	8-719-000-26	DIODE US1060M				
D552	8-719-000-26	DIODE US1060M				
HE301	1-543-261-11	HEAD, ERASE (886-01-24)				
HP301	1-543-424-11	HEAD, MAGNETIC (PB)				
HRP301	1-543-424-11	HEAD, MAGNETIC (REC/PB)				
IC301	8-759-106-61	IC UPC4570HA				
IC302	8-759-106-61	IC UPC4570HA				
IC303	8-752-031-83	IC CXA1101P				
IC304	8-759-600-02	IC M5218L				
IC305	8-759-601-43	IC M4066BP				
IC401	8-759-600-02	IC M5218L				
IC501	8-759-112-88	IC UPD65005C-112				
L301	1-410-774-11	MICRO INDUCTOR 8.2MMH				
L302	1-410-772-11	MICRO INDUCTOR 5.6MMH				
L303	1-410-779-21	MICRO INDUCTOR 22MMH				
ELECTRICAL PARTS						
Ref.No.	Part No.	Description				
L401	1-410-774-11	MICRO INDUCTOR 8.2MMH				
L402	1-410-772-11	MICRO INDUCTOR 5.6MMH				
L403	1-410-779-21	MICRO INDUCTOR 22MMH				
M501	X-3390-801-1	MOTOR ASSY				
M502	X-3390-801-1	MOTOR ASSY				
Q301	8-729-806-34	TRANSISTOR 2SC3400				
Q302	8-729-806-34	TRANSISTOR 2SC3400				
Q303	8-729-806-34	TRANSISTOR 2SC3400				
Q304	8-729-806-34	TRANSISTOR 2SC3400				
Q305	8-729-806-34	TRANSISTOR 2SC3400				
Q306	8-729-806-34	TRANSISTOR 2SC3400				
Q307	8-729-806-34	TRANSISTOR 2SC3400				
Q308	8-729-806-34	TRANSISTOR 2SC3400				
Q310	8-729-600-27	TRANSISTOR 2SC634SP				
Q311	8-729-806-34	TRANSISTOR 2SC3400				
Q401	8-729-806-34	TRANSISTOR 2SC3400				
Q402	8-729-806-34	TRANSISTOR 2SC3400				
Q403	8-729-806-34	TRANSISTOR 2SC3400				
Q404	8-729-806-34	TRANSISTOR 2SC3400				
Q405	8-729-806-34	TRANSISTOR 2SC3400				
Q406	8-729-806-34	TRANSISTOR 2SC3400				
Q407	8-729-806-34	TRANSISTOR 2SC3400				
Q408	8-729-806-34	TRANSISTOR 2SC3400				
Q410	8-729-600-27	TRANSISTOR 2SC634SP				
Q411	8-729-806-34	TRANSISTOR 2SC3400				
Q501	8-729-100-13	TRANSISTOR 2SC2001				
Q502	8-729-806-34	TRANSISTOR 2SC3400				
Q503	8-729-806-34	TRANSISTOR 2SC3400				
Q504	8-729-806-34	TRANSISTOR 2SC3400				
Q505	8-729-806-34	TRANSISTOR 2SC3400				
Q506	8-729-600-27	TRANSISTOR 2SC634SP				
Q507	8-729-806-34	TRANSISTOR 2SC3400				
Q508	8-729-806-34	TRANSISTOR 2SC3400				
Q509	8-729-806-34	TRANSISTOR 2SC3400				
Q510	8-729-806-34	TRANSISTOR 2SC3400				
Q511	8-729-107-26	TRANSISTOR 2SD1585-K				
Q513	8-729-117-43	TRANSISTOR 2SD774				
Q514	8-729-117-43	TRANSISTOR 2SD774				
Q515	8-729-117-54	TRANSISTOR 2SA1175				
Q516	8-729-117-54	TRANSISTOR 2SA1175				
Q517	8-729-806-34	TRANSISTOR 2SC3400				
Q518	8-729-806-34	TRANSISTOR 2SC3400				
Q551	8-729-600-27	TRANSISTOR 2SC634SP				
Q552	8-729-600-27	TRANSISTOR 2SC634SP				
Q553	8-729-806-34	TRANSISTOR 2SC3400				
Q554	8-729-117-54	TRANSISTOR 2SA1175				

## ELECTRICAL PARTS

Ref.No.	Part No.	Description	Value	Tolerance	Power
R300	1-249-409-11	CARBON	220	5%	1/6W
R301	1-247-887-00	CARBON	220K	5%	1/4W
R302	1-247-883-00	CARBON	150K	5%	1/4W
R303	1-249-409-11	CARBON	220	5%	1/6W
R304	1-215-440-00	CARBON	6.2K	5%	1/6W
R305	1-249-422-11	CARBON	2.7K	5%	1/6W
R306	1-249-421-11	CARBON	2.2K	5%	1/6W
R307	1-249-433-11	CARBON	22K	5%	1/6W
R308	1-247-887-00	CARBON	220K	5%	1/4W
R309	1-247-883-00	CARBON	150K	5%	1/4W
R310	1-249-433-11	CARBON	22K	5%	1/6W
R311	1-215-440-00	CARBON	6.2K	5%	1/6W
R312	1-249-422-11	CARBON	2.7K	5%	1/6W
R313	1-249-421-11	CARBON	2.2K	5%	1/6W
R314	1-249-433-11	CARBON	22K	5%	1/6W
R315	1-249-433-11	CARBON	22K	5%	1/6W
R316	1-249-413-11	CARBON	470	5%	1/6W
R317	1-249-421-11	CARBON	2.2K	5%	1/6W
R318	1-249-423-11	CARBON	3.3K	5%	1/6W
R319	1-249-421-11	CARBON	2.2K	5%	1/6W
R320	1-247-887-00	CARBON	220K	5%	1/4W
R321	1-249-441-11	CARBON	100K	5%	1/6W
R322	1-247-849-00	CARBON	5.6K	5%	1/6W
R323	1-249-433-11	CARBON	22K	5%	1/6W
R324	1-249-409-11	CARBON	220	5%	1/6W
R325	1-249-402-11	CARBON	56	5%	1/6W
R326	1-249-423-11	CARBON	3.3K	5%	1/6W
R327	1-249-430-11	CARBON	12K	5%	1/6W
R328	1-249-423-11	CARBON	3.3K	5%	1/6W
R329	1-249-411-11	CARBON	330	5%	1/6W
R330	1-249-431-11	CARBON	15K	5%	1/6W
R331	1-247-887-00	CARBON	220K	5%	1/4W
R332	1-249-435-11	CARBON	33K	5%	1/6W
R333	1-249-435-11	CARBON	33K	5%	1/6W
R334	1-249-429-11	CARBON	10K	5%	1/6W
R335	1-249-427-11	CARBON	6.8K	5%	1/6W
R336	1-249-441-11	CARBON	100K	5%	1/6W
R337	1-249-417-11	CARBON	1K	5%	1/6W
R338	1-249-437-11	CARBON	47K	5%	1/6W
R339	1-247-883-00	CARBON	150K	5%	1/6W
R340	1-249-409-11	CARBON	220	5%	1/6W
R400	1-249-409-11	CARBON	220	5%	1/6W
R401	1-247-887-00	CARBON	220K	5%	1/4W
R402	1-247-883-00	CARBON	150K	5%	1/4W
R403	1-249-409-11	CARBON	220	5%	1/6W

## ELECTRICAL PARTS

R404	1-215-440-00	CARBON	6.2K	5%	1/6W
R405	1-249-422-11	CARBON	2.7K	5%	1/6W
R406	1-249-421-11	CARBON	2.2K	5%	1/6W
R407	1-249-433-11	CARBON	22K	5%	1/6W
R408	1-247-887-00	CARBON	220K	5%	1/4W
R409	1-247-883-00	CARBON	150K	5%	1/4W
R410	1-249-433-11	CARBON	22K	5%	1/6W
R411	1-215-440-00	CARBON	6.2K	5%	1/6W
R412	1-249-422-11	CARBON	2.7K	5%	1/6W
R413	1-249-421-11	CARBON	2.2K	5%	1/6W
R414	1-249-433-11	CARBON	22K	5%	1/6W
R415	1-249-433-11	CARBON	22K	5%	1/6W
R416	1-249-413-11	CARBON	470	5%	1/6W
R417	1-249-421-11	CARBON	2.2K	5%	1/6W
R418	1-249-423-11	CARBON	3.3K	5%	1/6W
R419	1-249-421-11	CARBON	2.2K	5%	1/6W
R420	1-247-887-00	CARBON	220K	5%	1/4W
R421	1-249-441-11	CARBON	100K	5%	1/6W
R422	1-247-849-00	CARBON	5.6K	5%	1/6W
R423	1-249-433-11	CARBON	22K	5%	1/6W
R424	1-249-409-11	CARBON	220	5%	1/6W
R425	1-249-402-11	CARBON	56	5%	1/6W
R426	1-249-423-11	CARBON	3.3K	5%	1/6W
R427	1-249-430-11	CARBON	12K	5%	1/6W
R428	1-249-423-11	CARBON	3.3K	5%	1/6W
R429	1-249-411-11	CARBON	330	5%	1/6W
R430	1-249-431-11	CARBON	15K	5%	1/6W
R431	1-247-887-00	CARBON	220K	5%	1/4W
R432	1-249-435-11	CARBON	33K	5%	1/6W
R433	1-249-435-11	CARBON	33K	5%	1/6W
R434	1-249-429-11	CARBON	10K	5%	1/6W
R435	1-249-427-11	CARBON	6.8K	5%	1/6W
R436	1-249-441-11	CARBON	100K	5%	1/6W
R437	1-249-417-11	CARBON	1K	5%	1/6W
R438	1-249-437-11	CARBON	47K	5%	1/6W
R439	1-247-883-00	CARBON	150K	5%	1/4W
R440	1-249-409-11	CARBON	220	5%	1/6W
R500	1-249-413-11	CARBON	470	5%	1/6W
R501	1-249-399-11	CARBON	33	5%	1/6W
R502	1-249-428-11	CARBON	8.2K	5%	1/6W
R503	1-249-433-11	CARBON	22K	5%	1/6W
R504	1-249-430-11	CARBON	12K	5%	1/6W
R505	1-249-425-11	CARBON	4.7K	5%	1/6W
R506	1-249-421-11	CARBON	2.2K	5%	1/6W
R507	1-249-441-11	CARBON	100K	5%	1/6W

ELECTRICAL PARTS

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>			
R508	1-249-437-11	CARBON	47K	5%	1/6W
R509	1-249-437-11	CARBON	47K	5%	1/6W
R510	1-249-433-11	CARBON	22K	5%	1/6W
R511	1-249-437-11	CARBON	47K	5%	1/6W
R513	1-249-437-11	CARBON	47K	5%	1/6W
R514	1-249-429-11	CARBON	10K	5%	1/6W
R515	1-249-429-11	CARBON	10K	5%	1/6W
R516	1-249-401-11	CARBON	47	5%	1/6W
R517	1-249-421-11	CARBON	2.2K	5%	1/6W
R518	1-249-414-11	CARBON	560	5%	1/6W
R519	1-249-414-11	CARBON	560	5%	1/6W
R520	1-249-414-11	CARBON	560	5%	1/6W
R521	1-249-417-11	CARBON	1K	5%	1/6W
R522	1-249-423-11	CARBON	3.3K	5%	1/6W
R523	1-249-423-11	CARBON	3.3K	5%	1/6W
R524	1-249-417-11	CARBON	1K	5%	1/6W
R525	1-249-441-11	CARBON	100K	5%	1/6W
R526	1-249-441-11	CARBON	100K	5%	1/6W
R527	1-249-433-11	CARBON	22K	5%	1/6W
R528	1-249-433-11	CARBON	22K	5%	1/6W
R529	1-249-433-11	CARBON	22K	5%	1/6W
R530	1-249-408-11	CARBON	180	5%	1/6W
R531	1-249-408-11	CARBON	180	5%	1/6W
R532	1-249-420-11	CARBON	1.8K	5%	1/6W
R533	1-249-420-11	CARBON	1.8K	5%	1/6W
R534	1-249-429-11	CARBON	10K	5%	1/6W
R535	1-249-429-11	CARBON	10K	5%	1/6W
R536	1-249-429-11	CARBON	10K	5%	1/6W
R537	1-249-413-11	CARBON	470	5%	1/6W
R538	1-249-438-11	CARBON	56K	5%	1/6W
R550	1-215-460-00	CARBON	43K	5%	1/6W
R551	1-249-437-11	CARBON	47K	5%	1/6W
R552	1-249-414-11	CARBON	560	5%	1/6W
R553	1-249-425-11	CARBON	4.7K	5%	1/6W
R554	1-249-417-11	CARBON	1K	5%	1/6W
R555	1-202-471-00	SOLID	4.7M	5%	1/4W
R556	1-249-441-11	CARBON	100K	5%	1/6W
R557	1-249-425-11	CARBON	4.7K	5%	1/6W
R558	1-249-413-11	CARBON	470	5%	1/6W

ELECTRICAL PARTS

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
RV301	1-230-504-11	RES, ADJ, CARBON 220
RV302	1-230-504-11	RES, ADJ, CARBON 220
RV303	1-230-630-11	RES, ADJ, CARBON 10K
RV304	1-228-997-00	RES, ADJ, CARBON 100K
RV401	1-230-504-11	RES, ADJ, CARBON 220
RV402	1-230-504-11	RES, ADJ, CARBON 220
RV403	1-230-630-11	RES, ADJ, CARBON 10K
RV404	1-228-997-00	RES, ADJ, CARBON 100K
RV501	1-228-991-00	RES, ADJ, CARBON 2.2K
RV502	1-228-991-00	RES, ADJ, CARBON 2.2K
RV503	1-228-990-00	RES, ADJ, CARBON 1K
RV504	1-228-990-00	RES, ADJ, CARBON 1K
RY501	1-515-529-11	RELAY
S401	1-570-716-11	SWITCH, LEAF (FWD)
S402	1-570-715-11	SWITCH, LEAF (MOTOR B+)
S403	1-570-216-11	SWITCH, LEAF (TAPE SELECT)
S404	1-571-716-11	SWITCH, LEAF (FWD)
S405	1-571-260-11	SWITCH, LEAF (REC)
S406	1-570-715-11	SWITCH, LEAF (MOTOR B+)
S407	1-571-216-11	SWITCH, LEAF (TAPE SELECT)
S501	1-516-870-00	SWITCH, SLIDE (ISS)
S502	1-554-419-21	SWITCH, PUSH (1 KEY)(DOLBY NR)
S503	1-554-371-00	SWITCH, TACT (DUBBING SPEED HIGH/NORM/OFF)
W501	1-559-820-11	CORD (WITH CONNECTOR) 13P

PACKING METERIAL

<u>Part No.</u>	<u>Description</u>
3-881-644-00	PROTECTION BAG